

Supplemental Table 1. Correlations between components of apo A1/remnants individually and as ratios.

	ApoA1/Remnants (VAP)	ApoA1/Remnants (immunoassay)	ApoA1 (immunoassay)	ApoA1 (immunoassay)	IDL-C	VLDL3-C	Remnants	VLDL-C	non-HDL-C	Triglycerides	LDL-C	HDL-C
ApoA1/Remnants (VAP)	1.000	0.985	0.506	0.378	-0.763	-0.707	-0.783	-0.647	-0.423	-0.543	-0.299	0.590
ApoA1/Remnants (immunoassay)	0.985	1.000	0.535	0.470	-0.754	-0.702	-0.775	-0.644	-0.428	-0.515	-0.304	0.619
ApoA1 (VAP)	0.506	0.535	1.000	0.908	-0.071	-0.165	-0.111	-0.160	0.037	-0.176	0.078	0.966
ApoA1 (immunoassay)	0.378	0.470	0.908	1.000	-0.023	-0.121	-0.062	-0.125	0.024	-0.069	0.056	0.880
IDL-C	-0.763	-0.754	-0.071	-0.023	1.000	0.782	0.971	0.702	0.607	0.481	0.482	-0.185
VLDL3-C	-0.707	-0.702	-0.165	-0.121	0.782	1.000	0.909	0.964	0.406	0.757	0.204	-0.334
Remnants†	-0.783	-0.775	-0.111	-0.062	0.971	0.909	1.000	0.842	0.562	0.614	0.401	-0.253
VLDL-C	-0.647	-0.644	-0.160	-0.125	0.702	0.964	0.842	1.000	0.393	0.843	0.183	-0.341
non-HDL-C	-0.423	-0.428	0.037	0.024	0.607	0.406	0.562	0.393	1.000	0.240	0.976	-0.053
Triglycerides	-0.543	-0.515	-0.176	-0.069	0.481	0.757	0.614	0.843	0.240	1.000	0.056	-0.328
LDL-C	-0.299	-0.304	0.078	0.056	0.482	0.204	0.401	0.183	0.976	0.056	1.000	0.025
HDL-C	0.590	0.619	0.966	0.880	-0.185	-0.334	-0.253	-0.341	-0.053	-0.328	0.025	1.000
ApoB	-0.481	-0.481	-0.094	-0.071	0.602	0.418	0.563	0.413	0.974	0.317	0.943	-0.181
ApoB/ApoA1	-0.614	-0.629	-0.563	-0.504	0.512	0.416	0.503	0.413	0.771	0.344	0.726	-0.611
Triglycerides/HDL-C	-0.560	-0.553	-0.441	-0.354	0.399	0.691	0.533	0.784	0.181	0.922	0.007	-0.564
Total Cholesterol/HDL-C	-0.629	-0.651	-0.577	-0.542	0.535	0.517	0.558	0.525	0.723	0.408	0.648	-0.656

Apo, apolipoprotein; IDL-C, intermediate density lipoprotein cholesterol; VLDL-C, very low density lipoprotein cholesterol; HDL-C, high density lipoprotein cholesterol; LDL-C, low density lipoprotein cholesterol

†Remnants=VLDL₃-C + IDL-C

Supplemental Table 2. Multivariable hazard ratios for different lipoprotein ratios to coronary heart disease incidence overall and by sex. Hazard ratios (HR) are presented as per standard deviation. Models were adjusted by age, sex, BMI, education, smoking, alcohol use, systolic blood pressure, diastolic blood pressure, diabetes, and lipid-altering medications.

	Overall	Males	Females
Apo A1/IDL-C (VAP)	0.61 (0.45, 0.84), p=0.002	0.55 (0.32, 0.95), p=0.032	0.65 (0.44, 0.95), p=0.028
Apo A1/IDL-C (immunoassay)	0.63 (0.46, 0.85), p=0.002	0.54 (0.32, 0.92), p=0.022	0.68 (0.47, 0.97), p=0.035
HDL-C/remnants†	0.68 (0.53, 0.87), p=0.002	0.52 (0.32, 0.83), p=0.007	0.76 (0.57, 1.01), p=0.061

Apo, apolipoprotein; IDL-C, intermediate density lipoprotein cholesterol; HDL-C, high density lipoprotein cholesterol

†Remnants: VLDL₃-C + IDL-C